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(54) PRODUCTION OF HYDROGEN PEROXIDE

(57) Abstract:

PURPOSE: To obtain highly concd. H_2O_2 with high hydrogen selectivity without incorporating halogen ion into a reaction medium by allowing O_2 to react catalytically with H_2 with a modified platinum-group metal catalyst on which Zr and/or Al and a platinum-group metal are simultaneously deposited.

CONSTITUTION: Zr and/or Al and a platinum-group metal

are simultaneously deposited on a carrier (aluminum oxide, silicon oxide, zirconium oxide, etc.) to prepare a modified platinum-group metal catalyst. O_2 is allowed to react catalytically with H_2 in a reaction medium by using the catalyst to obtain H_2O_2 . The medium is formed with an aq. acidic soln. free of halogen ion and contg. an H_2O_2 stabilizer such as aminotri(methylenephosphonic acid) and pyrophosphoric acid.

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